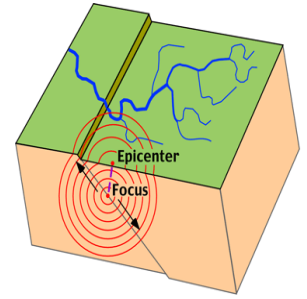




Physics Seminar



Friday, 3:30 pm April 6, 2012

Using Seismic Waves to Find Oil

Carlos Gallegos

Oil is one of the major sources of energy. There are several ways to find this resource. One way is through seismology. Yes is the same way we read earthquakes. In the 1920 the oil companies began using seismic surveying methods using explosions and other artificial sources. They were developed for exploring for oil and other resources in the shallow crust. This seminar will discuss how seismic waves are used to find the oil and other resources that help fuel our country.

Physics of the Tattoo Machine

Bronson Pausa

In 1876 Thomas Edison invented the Electric Pen which was merely a duplication system used by businesses and used a high-speed reciprocating motor to drive a single needle. The Electric Pen did not use any ink, rather, perforated holes in a master form, of which then became a stencil. In 1891, Samuel O'Reilly took this device, added multiple needles and an ink reservoir to give us the first ever tattoo machine. Later in 1929, Percy Waters patented a new design which closely resembles the modern day tattoo machine. His machine included two electromagnetic coils that were set parallel with the frame, a spark shield and an on/off switch. This seminar will introduce the concepts and interesting physics behind the tattoo machine and how it works.

Location: Ross 0220 (Ground level of Ross Hall)

(Refreshments will be served at 3:20pm.)

Physics/EPS/NHS/UNC

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